

No.

8500186



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Del Monte Corporation

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

TOMATO

'71-72'



Attest:

Kenneth H. H. H.
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D. C. this 30th day of June in the year of our Lord one thousand nine hundred and eighty-seven.

Richard E. Lyng
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

FORM APPROVED: OMB NO. 0581-0055

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(REVISED: ORIGINAL 7/19/85) (Instructions on reverse)

1. NAME OF APPLICANT(S) DEL MONTE CORPORATION		2. TEMPORARY DESIGNATION 71-72		3. VARIETY NAME 71-72	
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) 850 Thornton St., P.O. Box 36 San Leandro, CA 94577		5. PHONE (Include area code) (415) 351-2661		FOR OFFICIAL USE ONLY PVPO NUMBER 8500186	
6. GENUS AND SPECIES NAME Lycopersicum Esculentum		7. FAMILY NAME (Botanical) Solanaceae		FILING DATE July 19, 1985 TIME 2:30 <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.	
8. KIND NAME Tomato		9. DATE OF DETERMINATION 10-81		FEES RECEIVED AMOUNT FOR FILING \$ 1800.00 DATE 7/19/85 AMOUNT FOR CERTIFICATE \$ 200.00 DATE June 8, 1987	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) Corporation				12. DATE OF INCORPORATION 10/5/78 m.	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION RJR Nabisco, Delaware				13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Manford Haxton DR. HERRERY, J. BLUMH 11/29/86 per letter m. c/o R.J. Reynolds, Inc. → 1100 REYNOLDS BLDG. Winston-Salem, NC 27102	
PHONE (Include area code): (919) 773-2668 2699					
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED					
a. <input checked="" type="checkbox"/> Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)					
b. <input checked="" type="checkbox"/> Exhibit B, Novelty Statement.					
c. <input checked="" type="checkbox"/> Exhibit C, Objective Description of Variety (Request form from Plant Variety Protection Office.)					
d. <input type="checkbox"/> Exhibit D, Additional Description of Variety.					
e. <input checked="" type="checkbox"/> Exhibit E, Statement of the Basis of Applicant's Ownership.					
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.) <input type="checkbox"/> Yes (If "Yes," answer items 16 and 17 below) <input checked="" type="checkbox"/> No					
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> Yes <input type="checkbox"/> No			17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input type="checkbox"/> Foundation <input type="checkbox"/> Registered <input type="checkbox"/> Certified		
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? <input type="checkbox"/> Yes (If "Yes," give date) <input checked="" type="checkbox"/> No					
19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> Yes (If "Yes," give names of countries and dates) <input checked="" type="checkbox"/> No					
20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF APPLICANT Wm. J. Hagan				DATE Nov. 11, 1986	
SIGNATURE OF APPLICANT				DATE I	

INSTRUCTIONS

General: Send an original copy of the application and exhibits, at least 2,500 viable seeds (*furnish only untreated seed*), and \$1,800 fee (\$200 filing fee and \$1,600 examination fee) to the U. S. Department of Agriculture, Agricultural Marketing Service, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See Section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

Item

- 9 Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 14a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 14b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 14c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 14d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 14e Section 52(4) of the Plant Variety Protection Act requires applicants to furnish a statement of the basis of the applicant's ownership. The applicant may be the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.
- 15 If "Yes" is specified (*seed of this variety be sold by variety name only as a class of certified seed*) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "No," he may change his choice. (See Section 180.16 of the Regulations and Rules of Practice.)
- 19 See Sections 41 (i,j) and 42 of the Plant Variety Protection Act and Section 180.7 of the Regulations and Rules of Practice for eligibility requirements.



TOMATO

'71-72'

REVISED

14A. Exhibit A - Origin and Breeding History

Pedigree: Please see attached A-1.

Del Monte's tomato variety 71-72 is derived from the original cross designated as X6298 between Del Monte's variety V5155 to introduce "jointless pedicel," resistance to Fusarium Wilt Races 1 and 2 and to verticillium race 1 and commercial tomato variety released by the University of California named UC82 to provide "concentrated set of fruits" and "uniform ripening."

Origin of V5155 is illustrated in A-1. The single seed descent method was used for generation advancement of F5 and F6 generations of the cross X6298 involving V5155 and UC82. In 1979, plants with jointless pedicels, concentrated set and uniform ripening were bulked and tested for disease resistances and field performance characteristics as Davis Plot 1579. It was designated '71-72' in 1981.

In subsequent generations the following genes were identified in 71-72:

- sp self pruning, makes plants determinate
- I a and b for Fusarium wilt resistance to races 1 and 2
- ve resistance to verticillium race 1
- u uniform ripening
- ug uniform color on shoulders
- j-1 jointless pedicels

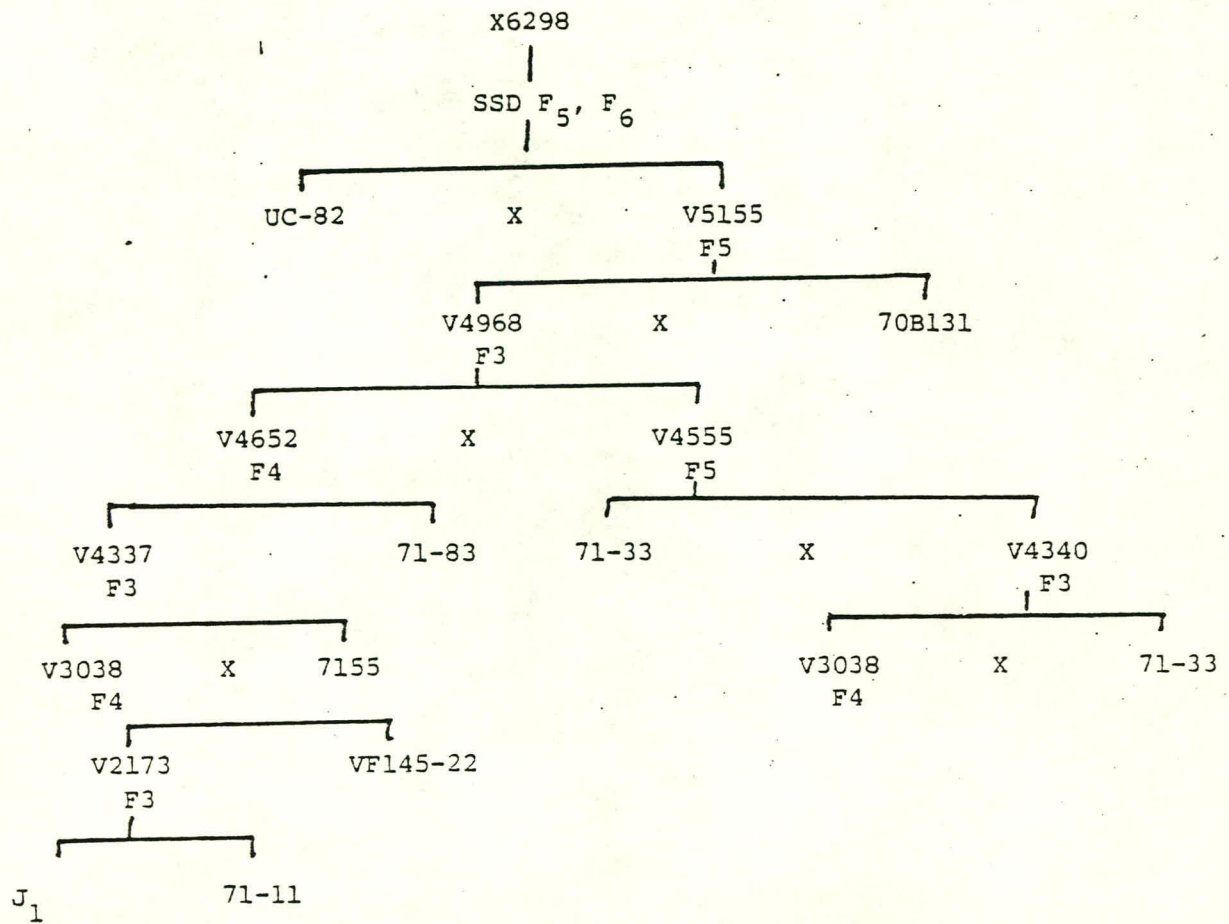
'71-72' appears stable and uniform through 6 generations of selfing and during our seed increase program. Frequency of off type plants with jointed pedicels is 1 : 100,000, with round fruits is 1 : 75,000 and with green shoulders on fruits is 1 : 250,000. These are rogued out by our seed department people.

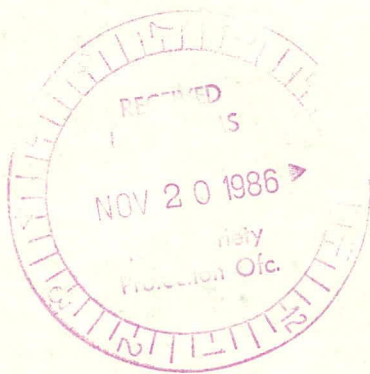
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Exhibit A-1

71-72 F9





TOMATO

'71-72'

REVISED

14B. Exhibit B - Novelty Statement

'71-72' is most similar to UC82.

'71-72' differs from UC82 in having jointless pedicels, higher soluble solids and higher viscosity. The plants of '71-72' at maturity have less vine cover thus exposing red ripe fruits, in comparison to UC82. The fruits of UC82 are considered square round whereas those of the variety '71-72' are rounder in the center and slightly narrower at the pistil end and the stem end.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN AND SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Tomato)

OBJECTIVE DESCRIPTION OF VARIETY

TOMATO (*Lycopersicon esculentum* Mill.)

NAME OF APPLICANT(S) Del Monte Corporation	TEMPORARY DESIGNATION	VARIETY NAME 71-72
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code) 850 Thornton St., P. O. Box 36 San Leandro, CA 94577		FOR OFFICIAL USE ONLY PVPO NUMBER 8500186

Choose responses for the following characters which best fit your variety. Complete this form as fully as possible for best characterization of the variety. When a single quantitative value is requested (e.g., fruit weight), your answer should be the mean of an adequate-sized, unbiased sample of plants. Use leading zeroes when necessary (e.g., or , etc.). The applicant variety should be compared with at least one well-known standard check variety of the same type (see list of recommended check varieties below), and grown in the same trials. The characters on this form should be described from plants grown under normal conditions of culture for the variety. Indicate by a check whether trial data are from greenhouse _____ or field ☒ plantings. Trials direct-seeded ☒ or transplanted _____; staked _____ or unstaked ☒. Give locations and dates of seeding and transplanting here: _____

Westley 3-26-81, 3-29-82, 4-1-82, 4-8-83, 4-11-84, 4-27-84.
Tracy 5-12-82, 5-16-82, 5-27-82, 5-1-83, 5-15-84, 5-17-84.
Menadota 1-5-83, 1-6-84, 2-7-85

COMPARISONS SHOULD BE MADE TO ONE OR MORE CHECK VARIETIES IN THE FOLLOWING LIST, IF AT ALL POSSIBLE. ENTER THE NUMBER OF THE CHECK IN BOXES WHERE IDENTITY OF CHECK IS REQUESTED.

1 = Ace 55 VF	7 = Homestead 24	13 = Red Rock	19 = VF 134
2 = Campbell 37	8 = Marglobe	14 = Roma VF	20 = US 28
3 = Chico III	9 = Murietta	15 = Rutgers	21 = VF 145 B 7879
4 = Flora Dade	10 = New Yorker	16 = Sunray	22 = Other (Specify) _____
5 = Florida MH-1	11 = Ohio MR-13	17 = Tropic	
6 = Heinz 1350	12 = Red Cherry Large	<input checked="" type="checkbox"/> 18 = UC 82	

1. SEEDLING:

Anthocyanin in hypocotyl of 2-15 cm. seedling: 1 = Absent 2 = Present Habit of 3-4 week old seedling: 1 = Normal 2 = Compact

2. MATURE PLANT (at maximum vegetative development):

Cm. Height

Growth: 1 = Indeterminate 2 = Determinate

Form: 1 = Lax, open 2 = Normal 3 = Compact 4 = Dwarf 5 = Brachytic

Size of canopy (compared to others of similar type): 1 = Small 2 = Medium 3 = Large

Habit: 1 = Sprawling (decumbent) 2 = Semi-erect 3 = Erect ('Dwarf Champion')

3. STEM:

Branching: 1 = Sparse ('Brehm's Solid Red', 'Fireball') 2 = Intermediate ('Westover') 3 = Profuse ('UC 82')

Branching at cotyledonary or first leafy node: 1 = Present 2 = Absent

No. of nodes below the first inflorescence: 1 = 1-4 2 = 4-7 3 = 7-10 4 = 10 or more

No. of nodes between early (1st - 2nd, 2nd - 3rd) inflorescences. No. of nodes between later-developing inflorescences.

Pubescence on younger stems: 1 = Smooth (no long hairs) 2 = Sparsely hairy (scattered long hairs) 3 = Moderately hairy 4 = Densely hairy or wooly

4. LEAF (mature leaf beneath the 3rd inflorescence):

Type: 1 = Tomato 2 = Potato ('Trip-L-Crop') Morphology (choose illustration on pg. 5 of this form that is most similar)

Margins of major leaflets: 1 = Nearly entire 2 = Shallowly toothed or scalloped 3 = Deeply toothed or cut, esp. towards base

Marginal rolling or wiltiness: 1 = Absent 2 = Slight 3 = Moderate 4 = Strong

Onset of leaflet rolling: 1 = Early-season 2 = Mid-season 3 = Late season

4. LEAF (mature leaf beneath the 3rd inflorescence -- continued):

- 1 Surface of major leaflets: 1 = Smooth 2 = Rugose (bumpy or veiny)
- 1 Pubescence: 1 = Smooth (no long hairs) 2 = Normal 3 = Hirsute 4 = Woolly

5. INFLORESCENCE (make observations on 3rd inflorescence):

- 3 Type: 1 = Simple 2 = Forked (2 major axes) 3 = Compound (much branched)
- 7 Number of flowers in inflorescence, average
- 2 Leafy or "running" inflorescences: 1 = Absent 2 = Occasional 3 = Frequent

6. FLOWER:

- 1 Calyx: 1 = Normal, lobes awl-shaped 2 = Macrocalyx, lobes large, leaflike 3 = Fleshy
- 2 Calyx-lobes: 1 = Shorter than corolla 2 = Approx. equalling corolla 3 = Distinctly longer than corolla
- 1 Corolla color: 1 = Yellow 2 = Old gold 3 = White or tan
- 1 Style pubescence: 1 = Absent 2 = Sparse 3 = Dense
- 1 Anthers: 1 = All fused into tube 2 = Separating into 2 or more groups at anthesis
- 2 Fasciation (1st flower of 2nd or 3rd inflorescence): 1 = Absent 2 = Occasionally present 3 = Frequently present

7. FRUIT (3rd fruit of 2nd or 3rd cluster): For the first 5 characters below, match your variety with the most similar illustration on pg. 5 of this form.

- 7 Typical fruit shape: 1 Shape of transverse section: 1 Shape of stem end:
- 3 Shape of blossom end: 1 Shape of pistil scar:

- 2 Abscission layer: 1 = Present (pedicellate) 2 = Absent (jointless) 2 Point of detachment of fruit at harvest: 1 = At pedicel joint 2 = At calyx attachment

mm length of pedicel (from joint to calyx attachment)

- 5 4 mm length of mature fruit (stem axis) 5 2 mm length, check var. no. 1 8
- 5 3 mm diameter of fruit at widest point 4 3 mm diameter, check var. no. 1 8
- 5 4 g weight of mature fruit 5 4 g weight, check var. no. 1 8

- 2 No. of locules: 1 = Two 2 = Three and four 3 = Five or more
- 1 Fruit surface: 1 = Smooth 2 = Slightly rough 3 = Moderately rough or ribbed
- 1 Fruit base color (mature-green stage): 1 = Light green ('Lanai', 'VF145-F5') 2 = Light gray-green ('Westover') 3 = Apple or medium green ('Heinz 1439 VF') 4 = Yellow green 5 = Dark green
- 1 Fruit pattern (mature-green stage): 1 = Uniform green 2 = Green-shouldered 3 = Radial stripes on sides of fruit
- 3 Shoulder color if different from base: 1 = Dark green 2 = Grey green 3 = Yellow green
- 5 Fruit color, full-ripe: 1 = White 2 = Yellow 3 = Orange 4 = Pink 5 = Red 6 = Brownish 7 = Greenish 8 = Other (Specify)
- 3 Flesh color, full-ripe: 1 = Yellow 2 = Pink 3 = Red/Crimson 4 = Orange 5 = Other (Specify)
- 1 Flesh color: 1 = Uniform 2 = With lighter and darker areas in walls
- 3 Locular gel color of table-ripe fruit: 1 = Green 2 = Yellow 3 = Red
- 2 Ripening: 1 = Blossom-to-stem end 2 = Uniform

7. FRUIT (3rd fruit of 2nd or 3rd cluster): Continued

<input checked="" type="checkbox"/> 2	Ripening:	1 = Inside out	2 = Uniformly	3 = Outside in	<input checked="" type="checkbox"/> 1	Stem scar size:	1 = Small ('Roma')	2 = Medium ('Rutgers')	3 = Large
<input checked="" type="checkbox"/> 2	Epidermis color:	1 = Colorless	2 = Yellow						
<input checked="" type="checkbox"/> 1	Epidermis:	1 = Normal	2 = Easy-peel		<input checked="" type="checkbox"/> 1	Core:	1 = Coreless (absent or smaller than 6x6 mm)	2 = Present	
<input checked="" type="checkbox"/> 2	Epidermis texture:	1 = Tender	2 = Average	3 = Tough					
<input checked="" type="checkbox"/> 2	Thickness of pericarp	<input checked="" type="checkbox"/> 3 1 = Under 3 mm 2 = 3-6 mm 3 = 6-9 mm 4 = Over 9 mm			Thickness of pericarp, check var. no.	<input type="checkbox"/> 1 <input type="checkbox"/> 8			

8. RESISTANCE TO FRUIT DISORDERS (Use code: 0 = Unknown, 1 = Susceptible, 2 = Resistant)

<input checked="" type="checkbox"/> 2	Blossom end rot	<input checked="" type="checkbox"/> 2	Catface	<input checked="" type="checkbox"/> 2	Fruit pox	<input checked="" type="checkbox"/> 2	Zippering
<input checked="" type="checkbox"/> 2	Blotchy ripening	<input checked="" type="checkbox"/> 2	Cracking, concentric	<input checked="" type="checkbox"/> 2	Gold fleck	<input type="checkbox"/>	Other (Specify) _____
<input checked="" type="checkbox"/> 2	Bursting	<input checked="" type="checkbox"/> 2	Cracking, radial	<input checked="" type="checkbox"/> 2	Graywall		

9. DISEASE AND PEST REACTION (Use code: 0 = Not tested, 1 = Susceptible, 2 = Resistant). NOTE: If claim of novelty is based wholly or in substantial part upon disease resistance, trial data should be appended. These should specify the method of testing, the reaction of the application variety, and reaction of well-known check varieties grown in the trial (identified by name).

VIRAL DISEASES:

<input type="checkbox"/> 0	Cucumber mosaic	<input type="checkbox"/> 0	Tobacco mosaic, Race 0	<input type="checkbox"/> 0	Tobacco mosaic, Race 2 ²
<input type="checkbox"/> 0	Curly top	<input type="checkbox"/> 0	Tobacco mosaic, Race 1	<input type="checkbox"/> 0	Tomato spotted wilt
<input type="checkbox"/> 0	Potato-Y virus	<input type="checkbox"/> 0	Tobacco mosaic, Race 2	<input type="checkbox"/> 0	Tomato yellows
<input type="checkbox"/> 0	Other virus (Specify) _____				

BACTERIAL DISEASES:

<input type="checkbox"/> 0	Bacterial canker (<i>Corynebacterium michiganense</i>)	<input type="checkbox"/> 0	Bacterial spot (<i>Xanthomonas vesicatorum</i>)
<input type="checkbox"/> 0	Bacterial soft rot (<i>Erwinia carotovora</i>)	<input type="checkbox"/> 0	Bacterial wilt, (<i>Pseudomonas solanacearum</i>)
<input type="checkbox"/> 0	Bacterial speck (<i>Pseudomonas tomato</i>)	<input type="checkbox"/> 0	Other bacterial disease (Specify) _____

FUNGAL DISEASES:

<input type="checkbox"/> 0	Anthrachnose (<i>Colletotrichum</i> spp.)	<input type="checkbox"/> 0	Leaf mold, Race 1 (<i>Cladosporium fulvum</i>)
<input type="checkbox"/> 0	Brown root rot or corky root, (<i>Pyrenochaeta lycopersici</i>)	<input type="checkbox"/> 0	Leaf mold, Race 2
<input type="checkbox"/> 0	Collar rot or stem canker, (<i>Alternaria solani</i>)	<input type="checkbox"/> 0	Leaf mold, Race 3
<input type="checkbox"/> 0	Early blight defoliation, (<i>Alternaria solani</i>)	<input checked="" type="checkbox"/> 0	Leaf mold, other races (Specify) _____
<input checked="" type="checkbox"/> 2	Fusarium wilt, Race 1, (<i>F. oxysporum</i> f. <i>lycopersici</i>)	<input type="checkbox"/> 0	Nailhead spot (<i>Alternaria tomato</i>)
<input checked="" type="checkbox"/> 2	Fusarium wilt, Race 2	<input type="checkbox"/> 0	Septoria leafspot (<i>S. lycopersici</i>)
<input checked="" type="checkbox"/> 1	Fusarium wilt, Race 3	<input type="checkbox"/> 0	Target leafspot (<i>Corynespora casicola</i>)
<input checked="" type="checkbox"/> 1	Gray leaf spot (<i>Stemphylium</i> spp.)	<input checked="" type="checkbox"/> 2	Verticillium wilt, Race 1 (<i>V. albo-atrum</i>)
<input type="checkbox"/> 0	Late blight, Race 0, (<i>Phytophthora infestans</i>)	<input type="checkbox"/> 0	Verticillium wilt, Race 2
<input type="checkbox"/> 0	Late blight, Race 1	<input type="checkbox"/> 0	Other fungal disease _____
		<input type="checkbox"/> 0	Other fungal disease _____

9. DISEASE AND PEST REACTION (Use code: 0 = Not tested, 1 = Susceptible, 2 = Resistant - Continued)

INSECTS AND PESTS:

<input type="checkbox"/> 0 Colorado potato beetle (<i>Leptinotarsa decemlineata</i>)	<input type="checkbox"/> 0 Tomato hornworm (<i>Manduca quinquemaculata</i>)
<input type="checkbox"/> 0 Southern root knot nematode (<i>Meloidogyne incognita</i>)	<input type="checkbox"/> 0 Tomato fruitworm (<i>Heliothis zea</i>)
<input type="checkbox"/> 0 Spider mites (<i>Tetranychus</i> spp.)	<input type="checkbox"/> 0 Whitefly (<i>Trialeurodes vaporariorum</i>)
<input type="checkbox"/> 0 Sugar beet army worm (<i>Spodoptera exigua</i>)	<input type="checkbox"/> Other (Specify) _____
<input type="checkbox"/> 0 Tobacco flea beetle (<i>Epitrix hirtipennis</i>)	_____

POLLUTANTS:

<input type="checkbox"/> 0 Ozone	<input type="checkbox"/> 0 Sulfur dioxide	<input checked="" type="checkbox"/> 2 Other (Specify) <u>Salt upto 20 dsm concentrations</u> <u>of NaCl and others found in California</u>
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10. CHEMISTRY AND COMPOSITION OF FULL-RIPE FRUITS: Suggested test methods may be found in "Tomato Products," 5th ed., National Canners Assn. Bull. 27-L. Please specify test methods or give a reference to methods used. Fill in table below with values for the new variety and for at least one well-known check variety of similar type grown in the same trial. Specify names or numbers of check varieties.

	SUBMITTED VARIETY	Check Variety UC-82	Check Variety	Check Variety
pH	4.27	4.17		
Titrateable acidity, as % citric	0.420	0.400		
Total solids (dry matter, seeds and skin removed)	6.39	6.18		
Soluble solids, as °Brix	6.4 5.6	5.5		

11. PHENOLOGY: Express length of developmental stages either as calendar days or as heat units (growing degree days), in degrees Celsius. If heat units are used, indicate the base temperature used in their calculation here _____ °C. See paper by Wernock under "References" for method. Give comparative data for at least one check variety; identify checks by name or by number from table on page 1.

	APPLICATION VARIETY	Check variety	Check variety	Check variety
Seeding to 50% flower (1 open flower on 50% of plants)				
Seed to once-over harvest (if applicable)				

☒ 4 Fruiting season: 1 = Long ('Marglobe') 2 = Medium ('Westover') 3 = Short, concentrated ('VF 145')
4 = Very concentrated ('UC 82')

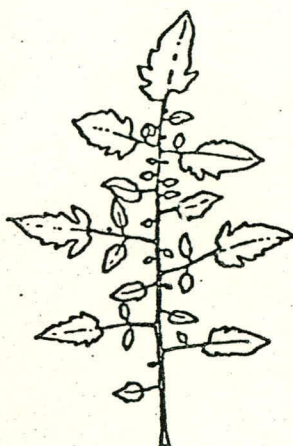
☒ 3 Relative maturity in areas tested: 1 = Early 2 = Medium early 3 = Medium
4 = Medium late 5 = Late 6 = Variable (if relative maturity is known to differ by location or environment, please explain on separate sheet).

12. ADAPTATION: If more than one category applies, list all in rank order.

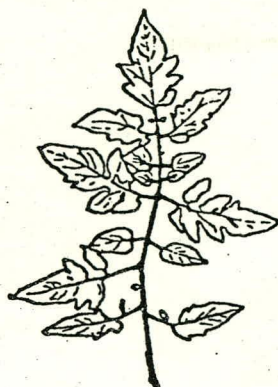
<input type="checkbox"/> 1	Culture:	1 = Field	2 = Greenhouse
<input type="checkbox"/> 4	Principal use(s):	1 = Home garden	2 = Fresh market 3 = Whole-pack canning
		4 = Concentrated products	5 = Other (Specify) _____
<input type="checkbox"/> 2	Machine harvest:	1 = Not adapted	2 = Adapted
<input type="checkbox"/> 9	Regions to which adaptation has been demonstrated:	1 = Northeast 2 = Mid Atlantic 3 = Southeast 4 = Florida 5 = Great Plains 6 = South-central 7 = Intermountain West 8 = Northwest 9 = California: Sacramento and Upper San Joaquin Valley 10 = California: Coastal areas 11 = California: Southern San Joaquin Valley & deserts	

ILLUSTRATIONS OF TOMATO LEAF AND FRUIT CHARACTERISTICS

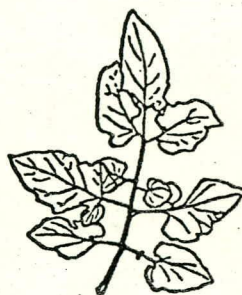
4. LEAF: Morphology:



(1)



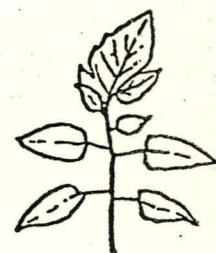
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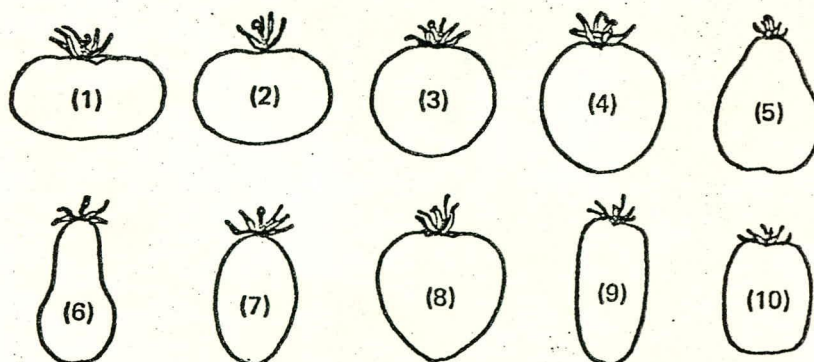


(4)

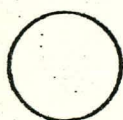


(5)

7. FRUIT: Typical fruit shape:



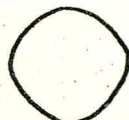
Shape of transverse section:



1=round



2=flattened



3=angular

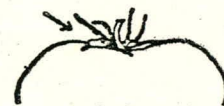


4=irregular

Shape of stem end:



1=flat



2=indented

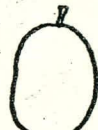
Shape of blossom end:



1=indented



2=flat



3=nippled

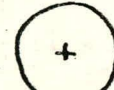


4=tapered

Shape of pistil scar:



1=dot



2=stellate



3=linear



4=irregular

REFERENCES

- Anonymous, 1976. All About Tomatoes. Ortho Books, Chevron Chemical Co., San Francisco. In three volumes: Midwest/Northeast Edition, West Edition, and South Edition
- Ware, G.W. & J. P. McCollum, 1968. Producing Vegetable Crops. The Interstate Printer & Publishers, Inc., Danville, Illinois. Chapter 30, pp. 451-473, "Tomatoes".
- Warnock, S.J. 1978. Using Tomato Heat Units. Leaflet No. 6, Campbell Institute for Agricultural Research, Camden, NJ. 10 p.
- Webb, R.E., T. H. Barksdale, & A. K. Stoner, 1973, "Tomatoes", pp. 344-361, In: Nelson, R.R. (Ed.), Breeding Plants for Disease Resistance. Pennsylvania State University Press, University Park.
- Young, P.A. & J.W. MacArthur, 1947. Horticultural characters of tomatoes. Bull. Texas Agric. Exper. Station No. 698.



Exhibit E - OWNERSHIP

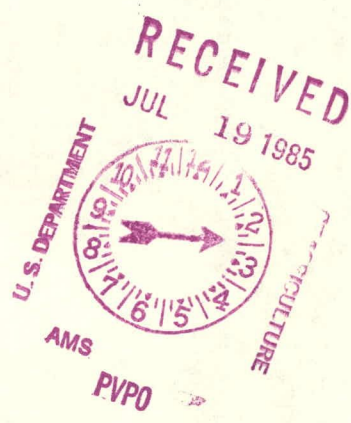
The undersigned is the breeder/developer of the tomato variety 71-72 and acknowledges ownership of this tomato variety 71-72 by the Del Monte Corporation.

Signed Kanti Rawal
Kanti M. Rawal

Date 2-28-85

Exhibit 1 of the 2nd
The undersigned is the President of the 1st variety 11-1
and acting as a member of the 1st variety 11-1
Monte Carlo

_____ Signed
_____ In the presence of



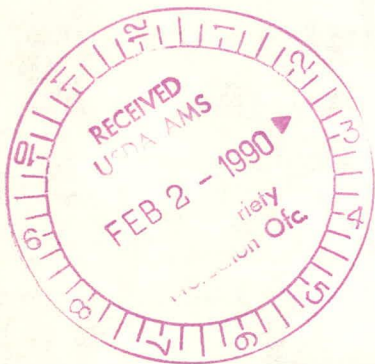
PATENT ASSIGNMENT

FOR VALUE RECEIVED, Del Monte Corporation
(hereinafter called the "Assignor")
a corporation of New York, U.S.A.
having a place business at One Market Plaza, San Francisco,
California 94105 U.S.A.

hereby sells, assigns, transfers and conveys unto

Nabisco Brands, Inc., a corporation of Delaware, U.S.A.
having a place of business at 100 DeForest Avenue, East Hanover,
New Jersey 07936 U.S.A.

its successors, assigns and legal representatives (hereinafter
called the "Assignee"), the entire right, title and interest, for
all countries and regions in and to certain inventions relating to
those set forth in the attached Exhibit A and in and to the
Letters Patents and applications set forth in the attached Exhibit
A, and all divisions, renewals and continuations thereof, and all
Letters Patent which may be granted thereon, and all reissues and
extensions thereof; and all applications for Letters Patent or
other grants of protection of proprietary rights including, but
not limited to, inventor's certificate, utility model, utility
certificate, patent of importation, registration of patent and
industrial design registration which may be filed, and which may
be granted, upon said inventions in any countries or regions of
the world, and all reissues, renewals and extensions thereof; and
Assignor hereby authorizes and requests the Commissioner of
Patents and Trademarks or comparable authority in each country or
region to issue all Letters Patent upon said inventions to the
Assignee or to such nominees as it may designate.

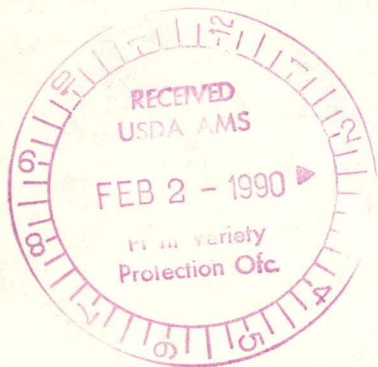


AND Assignor authorizes and empowers the said Assignee or nominees to invoke and claim for any application for such Letters Patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from Assignor.

AND Assignor hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country or region for any purpose and more particularly in proof of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

AND Assignor hereby covenants that it has the full right to convey the entire right, title and interest herein assigned and that it has not executed and will not execute any agreement in conflict herewith.

AND Assignor hereby covenants and agrees that it will communicate to said Assignee or nominees all facts known to it pertaining to said inventions and testify in all legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominees in obtaining, maintaining and enforcing



all lawful patent or other grants of protection for said inventions in any and all countries and regions.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal
this 9th day of January, 1990.

DEL MONTE CORPORATION

Date: 1/9/90

By: [Signature]

Melody C. Barnes
Witness

Printed Name: James C. Hender

Samuel J. Kelly
Witness

Title: Corporate Secretary

STATE OF)
)
COUNTY OF) ss.:

On this 9th day of Jan., 1990, before me personally appeared to me known and known to me to be the individual described in and who executed the foregoing instrument, and who thereupon acknowledged to me that James C. Hender executed the same for the purposes therein set forth.

(Seal)

Dorothy Ringo
Notary Public
(Notary Stamp)

DOROTHY RINGO
Notary Public, State of New York
No. 4670919
Qualified in Nassau County
Certificate Filed in Nassau County
Commission Expires July 31, 1990



NABISCO BRANDS, INC.

Date: _____
Suzanne P. Jenney
Witness

Anne Dolman
Witness

By: _____

Printed Name: Robert F Sharpe, Jr

Title: VP + Asst Sec.

STATE OF New York)
COUNTY OF New York) SS.:

On this 15 day of January, 1990, before me personally appeared to me known and known to me to be the individual described in and who executed the foregoing instrument, and who thereupon acknowledged to me that Robert F. Sharpe, Jr. executed the same for the purposes therein set forth.

(Seal)

Isabelle C. Cummins
Notary Public
(Notary Stamp)

ISABELLE C. CUMMINS
NOTARY PUBLIC, State of New York
No. 31-0823855
Qualified in New York County
Commission Expires 8/31/91

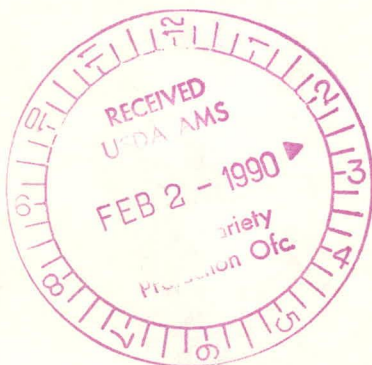
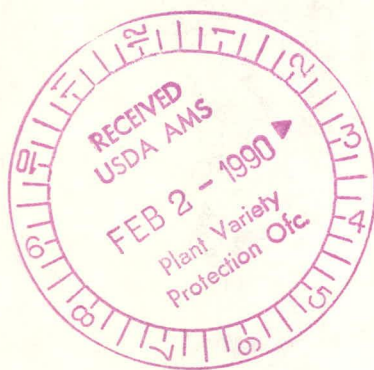


EXHIBIT A

Patent Rights Owned By
Del Monte Corporation
And Assigned To Nabisco
Brands Inc.

<u>Country</u>	<u>App. No./Date</u>	<u>Patent No./ Date</u>	<u>Title</u>
1. USA		8500187 Feb. 19, 1988	Pepper "Alpha II"
2. USA	136,450		Food Coating Compositions And Method For Their Use in Microwave Cooking
3. USA	155,611 Feb. 12, 1988		Fruit And Vegetable Dried Food Product.
EPO	Feb. 10, 1989		
Japan	Feb. 10, 1989		
N. Zealand	Feb. 10, 1989		





Del Monte Corporation

October 4, 1990

Commissioner
Plant Variety Protection Office
NAL Building
10301 Baltimore Blvd.
Room 500
Beltsville, Maryland 20705

**Re: Security Interest Granted In
Plant Variety Protection Certificates**

Gentlemen:

Please be advised that, pursuant to an Intellectual Property Security Agreement and Assignment (the "Security Agreement" herein a copy annexed as Appendix A) dated as of May 8, 1990, between Del Monte Corporation (the "Debtor"), a New York corporation located at One Market Plaza, P.O. Box 3575, San Francisco, California 94105, and Del Monte Foods Limited (the "Secured Party"), an English corporation, located at Del Monte House, 240 London Road, Staines, Middlesex TW18 4JD, England, the Debtor has granted to the Secured Party a continuing security interest in, and continuing lien upon, the Plant Variety Protection Certificates as described in the annexed Schedule 1.

The Secured Party's security interest in the described Plant Variety Protection Certificates can be terminated only in accordance with the terms of the Security Agreement.

Please record this correspondence as an instrument affecting title for each of the Plant Variety Protection Certificates indicated on Schedule 1. Enclosed is a draft in the amount of \$50 (Fifty) pursuant to CFR 180.175(h) to be credited toward payment of the recording fees.

Commissioner
Plant Variety Protection Office
October 4, 1990
Page 2

Please address any correspondence regarding the filing
of this document to:

Edward P. Kelly, Esq.
Fish & Neave
875 Third Avenue
New York, New York 10004
Telephone: (212) 716-0600

Sincerely,

DEL MONTE CORPORATION

John S. Trott

John S. Trott
Assistant Secretary

JST:gs
Encls.

Comm. on Labor
House Judiciary Committee
October 1, 1940
Page 3

Placed and subject to the following conditions:

1. That the subject shall be
2. That the subject shall be
3. That the subject shall be
4. That the subject shall be
5. That the subject shall be

There is

ALL INFORMATION CONTAINED

HEREIN IS UNCLASSIFIED
DATE 10/1/81 BY 1043

Schedule 1

<u>Owner</u>	<u>Appln. No./ Filing Date</u>	<u>Registration No.</u>	<u>Title</u>
Del Monte Corporation	8700116 April 13, 1987	8700116 Aug. 31, 1989	Tomato "71-75"
Del Monte Corporation	8500186 July 19, 1985	8500186 June 30, 1987	Tomato "71-72"





Del Monte Corporation

November 20, 1990

Commissioner
Plant Variety Protection Office
NAL Building
10301 Baltimore Blvd.
Room 500
Beltsville, MD 20705

**Re: Security Interest Granted In
Plant Variety Protection Certificates**

Gentlemen:

Please be advised that, pursuant to an Intellectual Property Security Agreement and Assignment (the "Security Agreement" herein a copy annexed as Appendix A) dated as of May 8, 1990, between Del Monte Corporation (the "Debtor"), a New York corporation located at One Market Plaza, P.O. Box 3575, San Francisco, California 94105, and Del Monte International (the "Secured Party"), a Panamanian corporation located at Del Monte House, 240 London Road, Staines, Middlesex TW18 4JD, England, the Debtor has granted to the Secured Party a continuing security interest in, and continuing lien upon, the Plant Variety Protection Certificates as described in the annexed Schedule 1.

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Please address any correspondence regarding the filing of this document to:

Edward P. Kelly, Esq.
Fish & Neave
875 - Third Avenue
New York City, NY 10022
Telephone: (212) 715-0600

Sincerely,

A handwritten signature in cursive script that reads "John S. Trott".

John S. Trott
Senior Counsel

JST:gs
Encls.

Schedule 1

<u>Owner</u>	<u>Appln. No./ Filing Date</u>	<u>Registration No.</u>	<u>Title</u>
Del Monte Corporation	8700116 April 13, 1987	8700116 Aug. 31, 1989	Tomato "71-75"
Del Monte Corporation	8500186 July 19, 1985	8500186 June 30, 1987	Tomato "71-72"

